METHOD FOR THE SEPARATION OF ZEOLITES

Abstract

The object of the present invention relates to a simple, rapid and inexpensive process for effecting solid-liquid separations in the case of zeolites, also having small crystals. This process, which is particularly useful for the recovery of zeolite crystals in suspension in the crystallization water, comprises treating this suspension of crystals with an acid or one of its precursors and subjecting the resulting mixture to filtration or decanting.

According to a particular aspect of the invention, the crystalline phase is separated in a mixture with oxides which can be used as ligands. Said oxides can be generated by the reagents of the zeolite preparation reagent mixture, not transformed into crystalline phase during the synthesis hydrothermal treatment, or they can be added to the suspension of crystals before the separation treatment, or again they can be generated by precursors suitably added to the crystallization slurry.